

Virginia Title V Operating Permit

Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-305 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	CPFilms, Inc.
Facility Name:	CPFilms, Inc., Fieldale Plant
Facility Location:	State Route 683, west of Martinsville in Henry County, Virginia
Registration Number:	30294
Permit Number:	VA 30294

Effective Date: **September 21, 2001**

Expiration Date: **September 21, 2006**

Richard F. Weeks, Jr.
Regional Director

for

Dennis H. Treacy
Director, Department of Environmental Quality

Signature Date

- Table of Contents, 2 pages
- Permit Conditions, 30 pages
- Attachment(s) – Permit to Construct and Operate dated January 30, 1997, June 8, 1994, February 2, 1994, June 14, 1989, and January 26, 1977.

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I. Facility Information

Permittee

CPFilms, Inc.
50 George Street
London, UK W1A 2BB

Responsible Official

Ralph Sink
Vice President – Human Resources & Health, Safety, Environmental Affairs

Facility

CPFilms, Inc., Fieldale Plant
P. O. Box 5068
Martinsville, Virginia 24115

Contact Person

James S. Ketterer
Environmental/Safety Manager
(540) 627-3373

AIRS Identification Number: 51-089-0035

Facility Description: SIC Code 2672 – Source manufactures solar controlled window film.

II. Insignificant Emission Units

The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation ¹	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
34	Drum solvent storage	9 VAC 5-80-720 B	VOCs	
35	Space heaters	9 VAC 5-80-720 A	Criteria Pollutants	
36	Lab hoods	9 VAC 5-80-720 A	VOCs	
37	Peerless gas-fired boiler	9 VAC 5-80-720 C	Criteria Pollutants	1.8 MMBtu/hr
38	3 sputtering machines	9 VAC 5-80-720 B	None	
39	Pilot laminator with electric dryer	9 VAC 5-80-720 A	VOCs	
40	Gas-fired incinerators	9 VAC 5-80-720 C	Criteria Pollutants	<10 MMBtu/hr
41	Hot melt glue	9 VAC 5-80-720 B	VOCs	
42	Industrial air stream heater	9 VAC 5-80-720 C	Criteria Pollutants	0.714 MMBtu/hr
43	Pilot dyeing lines with dryers	9 VAC 5-80-720 B	VOCs, NO _x , CO	

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Emission Unit No.	Emission Unit Description	Citation¹	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
44	Emergency diesel generator	9 VAC 5-80-720 C	Criteria Pollutants	125 KW
44	200 gallon diesel oil tank	9 VAC 5-80-720 B	VOCs	
45	1000 gallon propane tank	9 VAC 5-80-720 B	VOCs	
46	Industrial air stream heater	9 VAC 5-80-720 C	Criteria Pollutants	1.26 MMBtu/hr
47	Natural Gas Space Heaters (Plant 2)	9 VAC 5-80-720 A	Criteria Pollutants	
48	3 Metallizing Units (Plant 2)	9 VAC 5-80-720 B	None	
49	Caustic Soda Cleaning Baths	9 VAC 5-80-720 B	None	
50	Laboratory Hoods in Plant 2	9 VAC 5-80-720 B	VOCs	
51	Gas-fired dryers for Dye Lines	9 VAC 5-80-720 C	Criteria Pollutants	< 10 MMBtu/hr
52	Manual Solvent Cleaning	9 VAC 5-80-720 B	VOCs	< 5,000 lbs solvent
53	Industrial Air System gas-fired space heaters (Plant 2)	9 VAC 5-80-720 C	Criteria Pollutants	1.3 MMBtu/hr
54	Gas-fired radiant space heaters	9 VAC 5-80-720 A	Criteria Pollutants	< 10 MMBtu/hr
55	Water-based parts washers	9 VAC 5-80-720 B	VOCs	(2) 30-gallon units
56	500 gallon propane tank – Plant 2	9 VAC 5-80-720 B	VOCs	500 gallon capacity
57	Rag Compactor – Plant 2	9 VAC 5-80-720 B	VOCs	
59	Mixing/Drum Solvent storage areas	9 VAC 5-80-720 B	VOCs	
60	Hot Oil Dryers for Line 24	9 VAC 5-80-720 C	None	
61	Gas-fired dryers / Lines 26, 27, 29, 30, 32 & 33	9 VAC 5-80-720 C	Criteria Pollutants	< 10 MMBtu/hr each
62	Gas-fired incinerators for Lines 28, 30 & 33 at Plant 2	9 VAC 5-80-720 C	Criteria Pollutants	< 10 MMBtu/hr each
63	Emergency Diesel Water pump	9 VAC 5-80-720 C	Criteria Pollutants	157 HP
64	Lathe lubricating oil use	9 VAC 5-80-720 B	None	

¹The citation criteria for insignificant activities are as follows:

9 VAC 5-80-720 A - Listed Insignificant Activity, Not Included in Permit Application

9 VAC 5-80-720 B - Insignificant due to emission levels

9 VAC 5-80-720 C - Insignificant due to size or production rate

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

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III. Emission Units

Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
Fuel Burning Equipment							
05	05	Eclipse Lookout boiler	17 MMBtu/hr	-	-	-	January 26, 1977
Dyeing and laminating process							
01	01	Dye line, CPFilms design	45,000 sq ft/hr	-	-	-	-
02	02	Dye line, CPFilms design	48,750 sq ft/hr	-	-	-	-
03	03	Dye line, CPFilms design	55,000 sq ft/hr	-	-	-	-
04	04	Dye line, CPFilms design	78,000 sq ft/hr	-	-	-	-
24	24a, 24b	Faustel/Inta-Roto coating/laminating machine	90,000 sq ft/hr	-	-	-	-
25	25	Martin Machine coating machine	49,000 sq ft/hr	-	-	-	-
26	26	Faustel coating/laminating machine	90,000 sq ft/hr	-	-	-	-
27	27a, 27b	Faustel coating machine	90,000 sq ft/hr	-	-	-	-
28	28	Faustel coating/laminating machine	90,000 sq ft/hr	Combustion Engineering/ABB, Cor-Pak 8000, direct flame afterburner	01	VOCs	June 14, 1989
29	29	Faustel coating machine	90,000 sq ft/hr	Combustion Engineering/ABB, Cor-Pak 8000, direct flame afterburner	02	VOCs	February 2, 1994
30	30	Faustel UV coating/laminating machine	90,000 sq ft/hr	TEC Grace System, Quantum catalytic afterburner	03	VOCs	February 2, 1994
31	31a, 31b	Faustel coating (UK-3) machine	112,000 sq ft/hr	-	-	-	June 8, 1994
32	32	Lembo coating machine	90,000 sq ft/hr	TEC Grace System, Shadow direct flame afterburner	04	VOCs	January 30, 1997
33	33	Faustel coating/laminating machine	111,000 sq ft/hr	TEC Grace System, Magnum catalytic afterburner	05	VOCs	January 30, 1997
34	34	Faustel coating/laminating machine	111,000 sq ft/hr	MEGTEC RTO Enterprise Model	06	VOCs	June 23, 2000

*The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

IV. Fuel Burning Equipment Requirements – (#05)

A. Limitations

1. The approved fuels for the Eclipse Lookout boiler are natural gas and distillate oil. Distillate oil is defined as fuel oil that meets the specifications for fuel oil numbers 1 or 2 under the American Society for Testing and Materials, "Standard Specification for Fuel Oils." A change in the fuels may require a permit to modify and operate.
(9 VAC 5-80-110 and January 26, 1977 Permit)
2. Boiler emissions shall be controlled by proper operation and maintenance. Boiler operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions, at minimum.
(9 VAC 5-80-110)
3. Visible emissions from the boiler shall not exceed 20% opacity, except for one six-minute period in any one hour of not more than 60% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
(9 VAC 5-50-80 and 9 VAC 5-80-110)

B. Monitoring

1. The permittee shall obtain a certification from the fuel supplier with each shipment of distillate oil. Each fuel supplier certification shall include the following:
 - a. The name of the fuel supplier,
 - b. The date on which the oil was received,
 - c. The volume of distillate oil delivered in the shipment, and
 - d. A statement that the oil complies with the American Society for Testing and Materials specifications for fuel oil numbers 1 or 2.
(9 VAC 5-80-110)
2. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the West Central Regional Office. These records shall include, but are not limited to:

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- a. The annual throughput of natural gas (in million cubic feet) and distillate oil (in 1000 gallons) for the Eclipse Lookout boiler, calculated as the sum of each consecutive twelve (12) month period.
- b. All fuel supplier certifications.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.
(9 VAC 5-50-50 and 9 VAC 5-80-110)

3. Visual emission observations from the boiler exhaust stack shall be conducted at least once per week. If visible emissions are observed, the permittee shall:
 - a. Take timely corrective action such that the boiler resumes normal operation and there are no visible emissions from the boiler exhaust stack, or
 - b. Perform a visible emission evaluation (VEE) in accordance with 40 CFR 60, Appendix A, Method 9 to assure visible emissions from the boiler do not exceed twenty (20) percent opacity. The VEE shall be conducted for a minimum of six minutes. If any of the observations exceed twenty (20) percent, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the boiler resumes operation with visible emissions of 5 percent or less.

Records shall be maintained, stating the date and time of each visible emissions check and whether visible emissions were observed, results of all VEEs, the observer's name and any required corrective action taken. Visible emissions checks are not required during start-ups, shut-downs, and malfunctions. These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.
(9 VAC 5-50-20)

V. Process Equipment Requirements – (#28)

A. Limitations

1. Total VOC emissions from the coater laminator shall be controlled by a regenerative (technically, recuperative) thermal oxidizer. The thermal oxidizer shall be provided with adequate access for inspection.
(9 VAC 5-80-110 and Condition 5 of June 14, 1989 Permit)
2. The annual production of coated polyester shall not exceed 190 million square feet, calculated monthly as the sum of each consecutive twelve (12) month period.
(9 VAC 5-80-110 and Condition 3 of June 14, 1989 Permit)

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3. Emissions from the operation of the coater laminator shall not exceed the limits specified below:

Volatile Organic Compounds	11.2 lbs/hr	33.6 tons/yr
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(9 VAC 5-80-110, 9 VAC 5-50-260 and Condition 4 of June 14, 1989 Permit)

4. Visible emissions from the coater laminator shall not exceed 20% opacity, except for one six-minute period in any one hour of not more than 60% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
(9 VAC 5-50-80 and 9 VAC 5-80-110)

B. Monitoring

1. All air pollution control equipment operators shall be trained in the proper operation of the regenerative thermal oxidizer. The permittee shall have available good written operating procedures and a maintenance schedule for all air pollution equipment.
(9 VAC 5-80-110 and Condition 7 of June 14, 1989 Permit)
2. Visual emission observations from the coater laminator exhaust stack shall be conducted at least once per week. If visible emissions are observed, the permittee shall:
 - a. Take timely corrective action such that the coater laminator resumes normal operation and there are no visible emissions from the boiler exhaust stack, or
 - b. Perform a visible emission evaluation (VEE) in accordance with 40 CFR 60, Appendix A, Method 9 to assure visible emissions from the coater laminator do not exceed twenty (20) percent opacity. The VEE shall be conducted for a minimum of six minutes. If any of the observations exceed twenty (20) percent, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the boiler resumes operation with visible emissions of 5 percent or less.

Records shall be maintained, stating the date and time of each visible emissions check and whether visible emissions were observed, results of all VEEs, the observer's name and any required corrective action taken. Visible emissions checks are not required during start-ups, shut-downs, and malfunctions. These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-20)

C. Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the West Central Regional Office. These records shall include, but are not limited to:

- a. Annual throughput of the amount of coated polyester film, calculated monthly as the sum of each consecutive twelve (12) month period.
- b. Annual throughput and emission of VOCs, calculated monthly as the sum of each consecutive twelve (12) month period. The permittee shall maintain Certified Product Data Sheets (CPDS) and formulation data showing VOC content, HAP content, water content, and solids content for each coating, adhesive, thinner, cleaning solution, or other materials used in the coater laminator (#28). In the absence of such documentation, VOC content of raw materials shall be determined using 40 CFR Part 60, Appendix A Reference Method 24 or equivalent method acceptable to DEQ.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110 and Condition 9 of June 14, 1989 Permit)

VI. Process Equipment Requirements – (#29 and #30)**A. Limitations**

1. Volatile organic compound (VOC) emissions from the silicone coating line (#29) shall be controlled by incineration. The overall (capture and destruction) control efficiency shall be 95 percent or greater as measured by testing. The incinerator shall be provided with adequate access for inspection.
(9 VAC 5-80-110 and Condition 3 of February 2, 1994 Permit)
2. Volatile organic compound (VOC) emissions from the UV coater/laminator (#30) shall be controlled by a catalytic incinerator. The overall (capture and destruction) control efficiency shall be 95 percent or greater as measured by testing. The catalytic incinerator shall be provided with adequate access for inspection.
(9 VAC 5-80-110 and Condition 4 of February 2, 1994 Permit)
3. The approved fuel for the incinerators is natural gas. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 8 of February 2, 1994 Permit)

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4. Visible emissions from the silicone coating line and the UV coater/laminator shall not exceed 5% opacity.
(9 VAC 5-50-80, 9 VAC 5-80-110 and Condition 15 of February 2, 1994 Permit)

5. Emissions from the operation of the silicone coating line process shall not exceed the limits specified below:

Volatile Organic Compounds	3.7 lbs/hr	10.2 tons/yr
Toluene	1.6 lbs/hr	4.4 tons/yr
Heptane	2.1 lbs/hr	5.8 tons/yr

(9 VAC 5-80-110, 9 VAC 5-50-260 and Condition 13 of February 2, 1994 Permit)

6. Emissions from the operation of the UV coater/laminator process shall not exceed the limits specified below:

Volatile Organic Compounds	12.6 lbs/hr	18.4 tons/yr
Acrylic Acid	0.6 lbs/hr	0.9 tons/yr

(9 VAC 5-80-110, 9 VAC 5-50-260 and Condition 14 of February 2, 1994 Permit)

7. In order to minimize the duration and frequency of excess emissions due to malfunctions of process equipment or air pollution control equipment, the permittee shall:
- Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance. These records shall be maintained on site for a period of five (5) years and shall be made available to DEQ personnel upon request.
 - Maintain an inventory of spare parts that are needed to minimize durations of air pollution control equipment breakdowns.

(9 VAC 5-80-110 and Condition 21 of February 2, 1994 Permit)

B. Monitoring

1. The thermal incinerator shall maintain a temperature of 1400°F and shall be equipped with a device to continuously measure temperature. The device shall be installed in an accessible location and shall be maintained by the permittee such that it is in proper working order at all times.
(9 VAC 5-80-110 and Condition 3 of February 2, 1994 Permit)

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2. The catalytic incinerator shall maintain a minimum combustion zone temperature of 600°F and a minimum retention time of 0.338 seconds. The permittee shall maintain records of the manufacturer's recommendations for catalyst bed replacement and records of actual catalyst bed replacement.
(9 VAC 5-80-110 and Condition 5 of February 2, 1994 Permit)
3. Activity tests shall be conducted on the catalyst for activity level in percent of VOC destruction to determine the catalyst capability of achieving 95 percent or greater VOC destruction. The tests shall be conducted on an annual basis. The details of the tests are to be arranged with the West Central Regional Office. Two written copies of the test results shall be submitted to the West Central Regional Office within 45 days after test completion.
(9 VAC 5-80-110 and Condition 6 of February 2, 1994 Permit)
4. Temperature monitoring devices shall be installed to continuously measure and record the temperatures at the catalytic incinerator inlet and outlet. They shall be maintained and calibrated in accordance with the manufacturer's recommendation.
(9 VAC 5-80-110 and Condition 7 of February 2, 1994 Permit)
5. The permittee shall have available written operating procedures for the related air pollution control equipment. Operators shall be trained in the proper operation of all such equipment and shall be familiar with the written operating procedures. These procedures shall be based on the manufacturer's recommendations, at minimum. The permittee shall maintain records of training provided including names of trainees, date of training and nature of training.
(9 VAC 5-80-110 and Condition 22 of February 2, 1994 Permit)
6. Visual emission observations for each incinerator exhaust stack shall be conducted at least once per week. If visible emissions are observed, the permittee shall:
 - a. Take timely corrective action such that the incinerator resumes normal operation and there are no visible emissions from the incinerator exhaust stack, or
 - b. Perform a visible emission evaluation (VEE) in accordance with 40 CFR 60, Appendix A, Method 9 to assure visible emissions from the incinerator do not exceed five (5) percent opacity. The VEE shall be conducted for a minimum of six minutes. If any of the observations exceed five (5) percent, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the incinerator resumes operation with visible emissions of 5 percent or less.

Records shall be maintained, stating the date and time of each visible emissions check and whether visible emissions were observed, results of all VEEs, the observer's name and any required corrective action taken. Visible emissions checks are not required during start-ups, shut-downs, and malfunctions. These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years. (9 VAC 5-50-20)

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C. Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the West Central Regional Office. These records shall include, but are not limited to:

- a. Annual throughput of each coating used on the silicone coating line, calculated monthly as the sum of each consecutive twelve (12) month period.
- b. Annual throughput of each coating used on the coater/laminator line, calculated monthly as the sum of each consecutive twelve (12) month period.
- c. Annual throughput and emissions of VOCs and HAPs, calculated monthly as the sum of each consecutive twelve (12) month period. The permittee shall maintain Certified Product Data Sheets (CPDS) and formulation data showing VOC content, HAP content, water content, and solids content for each coating, adhesive, thinner, cleaning solution, or other materials used in the silicone coating line (#29) and UV coater/laminator (#30). In the absence of such documentation, VOC content of raw materials shall be determined using 40 CFR Part 60, Appendix A Reference Method 24 or equivalent method acceptable to DEQ.
- d. Results of all VEEs stating the date and time of each visible emissions check and whether visible emissions were observed, the observer's name and any required corrective action taken.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110 and Condition 17 of February 2, 1994 Permit)

D. Testing

The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Test ports shall be provided at the appropriate locations.

(9 VAC 5-50-30 and 9 VAC 5-80-110)

VII. Process Equipment Requirements – (#31)

A. Limitations

1. Volatile organic compound (VOC) emissions from the polyester film coating line shall be controlled by use of waterborne coatings. The coating line shall be provided with adequate access for inspection.
(9 VAC 5-80-110 and Condition 3 of June 8, 1994 Permit)
2. The approved fuel for the coating line dryer sections is natural gas. A change in the fuels may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 4 of June 8, 1994 Permit)
3. The annual throughput of coating for the polyester film coating line shall not exceed 39.1 tons per year, calculated monthly as the sum of each consecutive twelve (12) month period.
(9 VAC 5-80-110 and Condition 6 of June 8, 1994 Permit)
4. Visible emissions from the polyester film coating line shall not exceed 5% opacity.
(9 VAC 5-50-80, 9 VAC 5-80-110, and Condition 9 of June 8, 1994 Permit)
5. Emissions from the operation of the polyester film coating line process shall not exceed the limits specified below:

Nitrogen Oxides (as NO ₂)	1.14 lbs/hr	5.00 tons/yr
Carbon Monoxide	0.29 lbs/hr	1.25 tons/yr
Volatile Organic Compounds	29.97 lbs/hr	39.10 tons/yr
Isopropyl alcohol	28.80 lbs/hr	37.44 tons/yr

Annual emissions are to be calculated monthly as the sum of each consecutive twelve (12) month period.

(9 VAC 5-80-110, 9 VAC 5-50-260 and Condition 8 of June 8, 1994 Permit)

B. Monitoring and Recordkeeping

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the West Central Regional Office. These records shall include, but are not limited to:

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- a. Daily records demonstrating that coatings applied meet the definition of waterborne coatings.
- b. Annual throughput and emissions of VOCs and isopropyl alcohol, calculated monthly as the sum of each consecutive twelve (12) month period.
- c. Annual throughput and emissions of VOCs for coating lines 24, 26, 27 and 31 in units of tons, calculated monthly as the sum of each consecutive twelve (12) month period. The permittee shall maintain Certified Product Data Sheets (CPDS) and formulation data showing VOC content, HAP content, water content, and solids content for each coating, adhesive, thinner, cleaning solution, or other materials used in coating lines #24, #26, #27 and the polyester film coating line (#31). In the absence of such documentation, VOC content of raw materials shall be determined using 40 CFR Part 60, Appendix A Reference Method 24 or equivalent method acceptable to DEQ.
- d. The annual throughput of natural gas (in million cubic feet) for the dryer, calculated as the sum of each consecutive twelve (12) month period.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110 and Condition 11 of June 8, 1994 Permit)

2. In order to minimize the duration and frequency of excess emissions due to malfunctions of process equipment, the permittee shall develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance. These records shall be maintained on site for a period of five (5) years and shall be made available to DEQ personnel upon request.
(9 VAC 5-80-110 and Condition 15 of June 8, 1994 Permit)
3. Visual emission observations from the polyester film coating line exhaust stack shall be conducted at least once per week. If visible emissions are observed, the permittee shall:
 - a. Take timely corrective action such that the polyester film coating line resumes normal operation and there are no visible emissions from the polyester film coating line exhaust stack, or
 - b. Perform a visible emission evaluation (VEE) in accordance with 40 CFR 60, Appendix A, Method 9 to assure visible emissions from the polyester film coating line do not exceed five (5) percent opacity. The VEE shall be conducted for a minimum of six minutes. If any of the observations exceed five (5) percent, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the polyester film coating line resumes operation with visible emissions of 5 percent or less.

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Records shall be maintained, stating the date and time of each visible emissions check and whether visible emissions were observed, results of all VEEs, the observer's name and any required corrective action taken. Visible emissions checks are not required during start-ups, shut-downs, and malfunctions. These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.
(9 VAC 5-50-20)

C. Testing

The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
(9 VAC 5-50-30 and 9 VAC 5-80-110)

VIII. Process Equipment Requirements – (#32 and #33)

A. Limitations

1. VOC emissions from the silicone coating line (#32) shall be controlled by thermal oxidation. The overall (capture and destruction) control efficiency shall be 95 percent or greater. The thermal oxidizer shall be provided with adequate access for inspection.
(9 VAC 5-80-110 and Condition 3 of January 30, 1997 Permit)
2. VOC emissions from the SR UV coater and pressure sensitive adhesive coating line (#33) shall be controlled by a catalytic incinerator. The overall (capture and destruction) control efficiency shall be 95 percent or greater as measured by testing. The catalytic incinerator shall be provided with adequate access for inspection.
(9 VAC 5-80-110 and Condition 4 of January 30, 1997 Permit)
3. The approved fuel for the incinerators is natural gas. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 8 of January 30, 1997 Permit)
4. Visible emissions from the incinerators shall not exceed 5% opacity.
(9 VAC 5-50-80, 9 VAC 5-80-110 and Condition 15 of January 30, 1997 Permit)
5. Emissions from the operation of the Silicone coating line shall not exceed the limits specified below:

Volatile Organic Compounds	3.9 lbs/hr	12.4 tons/yr
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(9 VAC 5-80-110, 9 VAC 5-50-260 and Condition 13 of January 30, 1997 Permit)

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6. Emissions from the operation of the SR UV coater and pressure sensitive adhesive coating line shall not exceed the limits specified below:

Volatile Organic Compounds	51.4 lbs/hr	27.0 tons/yr
Acrylic acid	0.6 lbs/hr	0.5 tons/yr

(9 VAC 5-80-110, 9 VAC 5-50-260 and Condition 14 of January 30, 1997 Permit)

7. In order to minimize the duration and frequency of excess emissions due to malfunctions of process equipment or air pollution control equipment, the permittee shall:
 - a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance. These records shall be maintained on site for a period of five (5) years and shall be made available to DEQ personnel upon request.
 - b. Maintain an inventory of spare parts that are needed to minimize durations of air pollution control equipment breakdowns.

(9 VAC 5-80-110 and Condition 21 of January 30, 1997 Permit)

B. Monitoring

1. The thermal oxidizer shall maintain a temperature of 1400°F and shall be equipped with a device to continuously measure temperature.
(9 VAC 5-80-110 and Condition 3 of January 30, 1997 Permit)
2. The catalytic incinerator shall maintain a minimum combustion zone temperature of 600°F. The permittee shall maintain records of the manufacturer's recommendations for catalyst bed replacement and records of actual catalyst bed replacement.
(9 VAC 5-80-110 and Condition 5 of January 30, 1997 Permit)
3. Activity tests shall be conducted on the catalyst for activity level in percent of VOC destruction to determine the catalyst capability of achieving 95 percent or greater VOC destruction. The tests shall be conducted on an annual basis. The details of the tests are to be arranged with the West Central Regional Office. Two written copies of the test results shall be submitted to the West Central Regional Office within 45 days after test completion.
(9 VAC 5-80-110 and Condition 6 of January 30, 1997 Permit)
4. Temperature monitoring devices shall be installed to continuously measure and record the temperatures at the catalytic incinerator inlet and outlet. They shall be maintained and calibrated in accordance with the manufacturer's recommendation.
(9 VAC 5-80-110 and Condition 7 of January 30, 1997 Permit)

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5. The permittee shall have available written operating procedures for the related air pollution control equipment. Operators shall be trained in the proper operation of all such equipment and shall be familiar with the written operating procedures. These procedures shall be based on the manufacturer's recommendations, at minimum. The permittee shall maintain records of training provided including names of trainees, date of training and nature of training.
(9 VAC 5-80-110 and Condition 22 of January 30, 1997 Permit)
6. Visual emission observations from the incinerator exhaust stacks shall be conducted at least once per week. If visible emissions are observed, the permittee shall:
 - a. Take timely corrective action such that the incinerator resumes normal operation and there are no visible emissions from the incinerator exhaust stack, or
 - b. Perform a visible emission evaluation (VEE) in accordance with 40 CFR 60, Appendix A, Method 9 to assure visible emissions from the incinerator do not exceed five (5) percent opacity. The VEE shall be conducted for a minimum of six minutes. If any of the observations exceed five (5) percent, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the incinerator resumes operation with visible emissions of 5 percent or less.

Records shall be maintained, stating the date and time of each visible emissions check and whether visible emissions were observed, results of all VEEs, the observer's name and any required corrective action taken. Visible emissions checks are not required during start-ups, shut-downs, and malfunctions. These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-20)

C. Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the West Central Regional Office. These records shall include, but are not limited to:

- a. Annual throughput and emissions of VOCs for the Silicone coating line, calculated monthly as the sum of each consecutive twelve (12) month period.
- b. Annual throughput and emissions of VOCs for the SR coating and pressure sensitive adhesive coating line, calculated monthly as the sum of each consecutive twelve (12) month period.
- c. Annual acrylic acid emissions, calculated monthly as the sum of each consecutive twelve (12) month period.

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- d. The permittee shall maintain Certified Product Data Sheets (CPDS) and formulation data showing VOC content, HAP content, water content, and solids content for each coating, adhesive, thinner, cleaning solution, or other materials used in the silicone coating line (#32) and SR UV coater and pressure-sensitive coating line (#33). In the absence of such documentation, VOC content of raw materials shall be determined using 40 CFR Part 60, Appendix A Reference Method 24 or equivalent method acceptable to DEQ.
- e. Results of all VEEs stating the date and time of each visible emissions check and whether visible emissions were observed, the observer's name and any required corrective action taken.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110 and Condition 17 of January 30, 1997 Permit)

D. Testing

The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.

(9 VAC 5-50-30 and 9 VAC 5-80-110)

IX. Process Equipment Requirements – (#34)

A. Limitations

1. Volatile Organic Compounds emissions from the SR UV coater and pressure sensitive adhesive coating line (#34) shall be controlled by a regenerative thermal oxidizer. The regenerative thermal oxidizer shall maintain a minimum temperature of 1,400 degrees F. The regenerative thermal oxidizer shall be provided with adequate access for inspection and shall be in operation when the SR UV coater and pressure sensitive adhesive coating line (#34) is operating.
(9 VAC 5-80-110 and Condition 3 of June 23, 2000 Permit)
2. The regenerative thermal oxidizer shall achieve a control efficiency for Volatile Organic Compounds of no less than 95%, as measured by testing.
(9 VAC 5-80-110 and Condition 4 of June 23, 2000 Permit)
3. The approved fuel for the regenerative thermal oxidizer is natural gas. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 6 of June 23, 2000 Permit)

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4. Emissions from the operation of the SR UV coater and pressure sensitive adhesive coating line (#34) shall not exceed the limits specified below:

Volatile Organic Compounds	57.3 lbs/hr	39.4 tons/yr
Acrylic Acid	0.5 lbs/hr	0.5 tons/yr

(9 VAC 5-80-110 and Condition 8 of June 23, 2000 Permit)

5. Visible emissions from the regenerative thermal oxidizer stack shall not exceed 5% opacity as determined by EPA Method 9 (reference 40 CFR Part 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.

(9 VAC 5-80-110 and Condition 9 of June 23, 2000 Permit)

6. The permitted facility shall be constructed so as to allow for emissions testing and monitoring upon reasonable notice at any time, using appropriate methods. Test ports shall be provided when requested at the appropriate locations.

(9 VAC 5-80-110 and Condition 11 of June 23, 2000 Permit)

B. Monitoring

1. The regenerative thermal oxidizer shall be equipped with a device to continuously measure and record the thermal oxidizer combustion chamber temperature. The monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. The monitoring device shall be provided with adequate access for inspection and shall be in operation when the regenerative thermal oxidizer is operating.

(9 VAC 5-80-110 and Condition 5 of June 23, 2000 Permit)

2. Initial performance tests shall be conducted for Volatile Organic Compounds from the SR UV coater and pressure sensitive adhesive coating line (#34) to determine compliance with the control efficiency requirement in Condition 4. The tests shall be performed and demonstrate compliance within 60 days after achieving the maximum production rate at which the facility will be operated but in no event later than 180 days after start-up of the permitted facility. Tests shall be conducted and reported and data reduced as set forth in 9 VAC 5-50-30 and 9 VAC 5-60-30, and the test methods and procedures contained in each applicable section or subpart listed in 9 VAC 5-50-410 and 9 VAC 5-60-70. At the same time, a visible emission evaluation shall be conducted on the regenerative thermal oxidizer stack. The details of the tests are to be arranged with the West Central Regional Office. The permittee shall submit a test protocol at least 30 days prior to testing. Two copies of the test results shall be submitted to the West Central Regional Office within 45 days after test completion and shall conform to the test report format enclosed with this permit.

(9 VAC 5-80-110 and Condition 7 of June 23, 2000 Permit)

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3. Visual emission observations from the regenerative thermal oxidizer exhaust stacks shall be conducted at least once per week. If visible emissions are observed, the permittee shall:
 - a. Take timely corrective action such that the regenerative thermal oxidizer resumes normal operation and there are no visible emissions from the regenerative thermal oxidizer exhaust stack, or
 - b. Perform a visible emission evaluation (VEE) in accordance with 40 CFR 60, Appendix A, Method 9 to assure visible emissions from the regenerative thermal oxidizer do not exceed five (5) percent opacity. The VEE shall be conducted for a minimum of six minutes. If any of the observations exceed five (5) percent, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the regenerative thermal oxidizer resumes operation with visible emissions of 5 percent or less.

Records shall be maintained, stating the date and time of each visible emissions check and whether visible emissions were observed, results of all VEEs, the observer's name and any required corrective action taken. Visible emissions checks are not required during start-ups, shut-downs, and malfunctions. These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-20)

C. Recordkeeping

1. The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the West Central Regional Office. These records shall include, but are not limited to:
 - a. Annual throughput of VOC's, calculated monthly as the sum of each consecutive 12 month period. The emissions shall be calculated monthly as the sum of each consecutive 12 month period.
 - b. The annual acrylic acid emissions calculated monthly as the sum of each consecutive 12 month period.
 - c. The permittee shall maintain Certified Product Data Sheets (CPDS) and formulation data showing VOC content, HAP content, water content, and solids content for each coating, adhesive, thinner, cleaning solution, or other materials used in SR UV coater and pressure-sensitive coating line (#34). In the absence of such documentation, VOC content of raw materials shall be determined using 40 CFR Part 60, Appendix A Reference Method 24 or equivalent method acceptable to DEQ.

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- d. Operation and control device monitoring records for the regenerative thermal oxidizer.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-80-110 and Condition 10 of June 23, 2000 Permit)

2. The permittee shall furnish written notification to the West Central Regional Office:

- a. The anticipated date of performance tests of the SR UV coater and pressure sensitive adhesive coating line (#34) postmarked at least 30 days prior to such date.

(9 VAC 5-80-110 and Condition 12 of June 23, 2000 Permit)

X. Process Equipment Requirements – (#01 - #04 and #24 - #27)

A. Limitations

Visible emissions from the dye lines and coaters/laminators (#24, 25, 26, and 27) shall not exceed 20 percent opacity, except for one six-minute period in any one hour of not more than 60 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). Failure to meet the requirements of this section because of the presence of water vapor shall not be a violation of this section.

(9 VAC 5-50-80)

XI. Facility Wide Conditions

A. Existing source standard for visible emissions

Unless otherwise specified in this permit, no owner or other person shall cause or permit to be discharged into the atmosphere from any affected facility any visible emissions which exhibit greater than 20% opacity, except for one six-minute period in any one hour of not more than 60% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). Failure to meet the requirements of this section because of the presence of water vapor shall not be a violation of this section.

(9 VAC 5-40-80)

B. New source standard for visible emissions

Unless otherwise specified in this permit, on or after the date on which the performance test required to be conducted by 9 VAC 5-50-30 is completed, no owner or other person shall cause or permit to be discharged into the atmosphere from any affected facility any visible emissions which exhibit greater than 20% opacity, except for one six-minute period in any one hour of not more than 30% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). Failure to meet the requirements of this section because of the presence of water vapor shall not be a violation of this section. (9 VAC 5-50-80)

XII. Permit Shield & Inapplicable Requirements

Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
None identified	N/A	N/A

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.
(9 VAC 5-80-140)

XIII. General Conditions**A. Federal Enforceability**

All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
(9 VAC 5-80-110 N)

B. Permit Expiration

This permit shall become invalid five years from the date of issuance. The permittee shall submit an application for renewal of this permit no earlier than 18 months and no later than six months prior to the date of expiration of this permit. Upon receipt of a complete and timely application for renewal, this source may continue to operate subject to final action by the DEQ on the renewal application.
(9 VAC 5-80-110 D and 9 VAC 5-80-80 F)

C. Recordkeeping and Reporting

1. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
 - a. The date, place as defined in the permit, and time of sampling or measurements.

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- b. The date(s) analyses were performed.
- c. The company or entity that performed the analyses.
- d. The analytical techniques or methods used.
- e. The results of such analyses.
- f. The operating conditions existing at the time of sampling or measurement.

(9 VAC 5-80-110 F)

- 2. Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

(9 VAC 5-80-110 F)

- 3. The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **March 1** and **September 1** of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

- a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.
- b. All deviations from permit requirements. For purposes of this permit, deviations include, but are not limited to:

- (1) Exceedance of emissions limitations or operational restrictions;

- (2) Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or compliance assurance monitoring which indicates an exceedance of emission limitations or operational restrictions; or,

- (3) Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.

(9 VAC 5-80-110 F)

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D. Annual Compliance Certification

Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than March 1 each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

1. The time period included in the certification. The time period to be addressed is January 1 to December 31.
2. The identification of each term or condition of the permit that is the basis of the certification.
3. The compliance status.
4. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.
5. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.
6. Such other facts as the permit may require to determine the compliance status of the source.

One copy of the annual compliance certification shall be sent to EPA at the following address:

Clean Air Act Title V Compliance Certification (3AP00)
U. S. Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029.

(9 VAC 5-80-110 K.5)

E. Permit Deviation Reporting

The permittee shall notify the West Central Regional Office, within four daytime business hours of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the occurrence, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to General Condition XII.C.3. of this permit.

(9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)

F. Failure/Malfunction Reporting

If, for any reason, the affected facilities or related air pollution control equipment fails or malfunctions and may cause excess emissions for more than one hour, the owner shall notify the West Central Regional Office, within four (4) daytime business hours of the occurrence. In addition, the owner shall provide a written statement, within 14 days, explaining the problem, corrective action taken, and the estimated duration of the breakdown/shutdown.
(9 VAC 5-80-250)

G. Severability

The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.
(9 VAC 5-80-110 G.1)

H. Duty to Comply

The permittee shall comply with all terms and conditions of this permit, including those terms and conditions set forth in a tabular format. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.
(9 VAC 5-80-110 G.2)

I. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
(9 VAC 5-80-110 G.3)

J. Permit Action for Cause

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause as specified in 9 VAC 5-80-110 L, 9 VAC 5-80-240 and 9 VAC 5-80-260. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
(9 VAC 5-80-110 G.4)
2. Such changes that may require a permit modification and/or revisions include, but are not limited to, the following:

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- a. Erection, fabrication, installation, addition, or modification of an emissions unit (which is the source, or part of it, which emits or has the potential to emit any regulated air pollutant), or of a source, where there is, or there is potential of, a resulting emissions increase;
- b. Reconstruction or replacement of any emissions unit or components thereof such that its capital cost exceeds 50% of the cost of a whole new unit;
- c. Any change at a source which causes emission of a pollutant not previously emitted, an increase in emissions, production, throughput, hours of operation, or fuel use greater than those allowed by the permit, or by 9 VAC 5-80-11, unless such an increase is authorized by an emissions cap; or any change at a source which causes an increase in emissions resulting from a reduction in control efficiency, unless such an increase is authorized by an emissions cap;
- d. Any reduction of the height of a stack or of a point of emissions, or the addition of any obstruction which hinders the vertical motion of exhaust;
- e. Any change at the source which affects its compliance with conditions in this permit, including conditions relating to monitoring, recordkeeping, and reporting;
- f. Addition of an emissions unit which qualifies as insignificant by emissions rate (9 VAC 5-80-720 B) or by size or production rate (9 VAC 5-80-720 C);
- g. Any change in insignificant activities, as defined by 9 VAC 5-80-90 D.1.a(1) and 9 VAC 5-80-720 B and 9 VAC 5-80-720 C.

(9 VAC 5-80-110 G, 9 VAC 5-80-110 J, 9 VAC 5-80-240, and 9 VAC 5-80-260)

K. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege.
(9 VAC 5-80-110 G.5)

L. Duty to Submit Information

1. The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.
(9 VAC 5-80-110 G.6)

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2. Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.
(9 VAC 5-80-110 K.1)

M. Duty to Pay Permit Fees

The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-305 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-355. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by **April 15** of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department.
(9 VAC 5-80-110 H and 9 VAC 5-80-340 C)

N. Fugitive Dust Emission Standards

During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

1. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
2. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or other similar operations;
4. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
5. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-40-90 and 9 VAC 5-50-90)

O. Startup, Shutdown, and Malfunction

At all times, including periods of startup, shutdown, soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20)

P. Alternative Operating Scenarios

Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1.

(9 VAC 5-80-110 J)

Q. Inspection and Entry Requirements

The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

1. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
4. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2)

R. Reopening For Cause

The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80F.

1. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
2. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
3. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

(9 VAC 5-80-110 L)

S. Permit Availability

Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.

(9 VAC 5-80-150 E)

T. Transfer of Permits

1. No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.
(9 VAC 5-80-160)
2. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)

3. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)

U. Malfunction as an Affirmative Defense

1. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the conditions of paragraph 2 are met.
2. The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
 - a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
 - b. The permitted facility was at the time being properly operated.
 - c. During the period of malfunction, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit.
 - d. For malfunctions that occurred for one hour or more, the permittee submitted to the Board by the deadlines described in **Failure/Malfunction Reporting** above, a notice and written statement containing a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notice fulfills the requirement of 9 VAC 5-80-110 F.2.b to report promptly deviations from permit requirements.
3. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any requirement applicable to the source.

(9 VAC 5-80-250)

V. Permit Revocation or Termination for Cause

A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe, any permit for any of the grounds for revocation or termination or for any other violations of these regulations.

(9 VAC 5-80-260)

W. Duty to Supplement or Correct Application

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.

(9 VAC 5-80-80 E)

X. Stratospheric Ozone Protection

If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.

(40 CFR Part 82, Subparts A-F)

Y. Accidental Release Prevention

If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.

(40 CFR Part 68)

Z. Changes to Permits for Emissions Trading

No permit revision shall be required, under any federally approved economic incentives, marketable permits, emissions trading or similar programs or processes for changes that are provided for in this permit.

(9 VAC 5-80-110 I)

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AA. Emissions Trading

Where trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emission trade:

1. All terms and conditions required under 9 VAC 5-80-110 except subsection N shall be included to determine compliance.
2. The permit shield described in 9 VAC 80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
3. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.

(9 VAC 5-80-110I)

IX State-Only Enforceable Requirements

The State Only requirements have not been included in the Title V permit at the request of the permittee.